

Notice of Allowability

Application No.

09/823,777

Examiner

Benjamin R. Bruckart

Applicant(s)

BUDDHIKOT ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 7-5-05.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☒ The drawings filed on 30 March 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Bharat Barot
BHARAT BAROT
PRIMARY EXAMINER

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Independent claims 1 and 10 among other things teach the limitation "a method for constructing a revised cache layout of a media clip at each of a network distributed proxy server (NDPS) in accordance with a lazy caching approach and token exchange, the method comprising the steps of: receiving rank change information for said media clip from an origin server at said each NDPS; determining a revised cache layout responsive to the rank change information at said each NDPS; receiving a client request for at least one segment of said media clip at one of said each NDPS; returning said at least one requested segment from a cache associated with the one of said each NDPS in the case where a requested segment is stored therein; otherwise, initiating a token exchange with another NDPS that stores the requested segment, wherein the step of initiating a token exchange with another NDPS that caches the requested segment comprises sending a token from said one of said each NDPS to said another NDPS, wherein said token is adapted for: retaining said at least one segment of said media clip in said revised cache layout if said another NDPS possesses a local token for said at least one segment of said media clip; and replacing said at least one segment of said media clip with at least one other segment of at least one other media clip if said another NDPS does not possess said local token for said at least one segment of said media clip" in a network environment with at least one origin server and a plurality of network distributed proxy servers (NDPS) in communication with said at least one origin server, each NDPS including an associated cache.

Independent claim 7 among other things teach the limitation "a method for constructing a revised cache layout of a media clip at each of a network distributed proxy server (NDPS) in accordance with a lazy caching approach and token exchange, the method comprising the steps of: receiving rank change information for said media clip from an origin server at said each NDPS; determining a revised cache layout responsive to the rank change information at said each NDPS; receiving a client request for at least one segment of said media clip at one of said each NDPS; returning said at least one requested segment from a cache associated with the one of said each NDPS in the case where a requested segment is stored therein; otherwise, initiating a

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token exchange with another NDPS that stores the requested segment, wherein the step of initiating a token exchange with another NDPS that caches the requested segment comprises sending a token from said one of said each NDPS to said another NDPS, wherein said token is adapted for: sending a segment request packet from said one of said each NDPS to said another NDPS with an associated token bit set to one for said requested segment; determining at said another NDPS whether a token associated with said requested segment is set or not set; rejecting said token exchange by said another NDPS in the case where it is determined that said token is set at said another NDPS; and accepting said token exchanging the case where it is determined that said token is not set as said another NDPS” in a network environment with at least one origin server and a plurality of network distributed proxy servers (NDPS) in communication with said at least one origin server, each NDPS including an associated cache.

The prior art does not teach the cited limitation.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

CORRESPONDANCE INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R Bruckart whose telephone number 571-272-3982.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone numbers for the

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organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and after final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the examiner whose telephone number is 571-272-3982.

Benjamin R Bruckart
Examiner
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Bharat Barot
**BHARAT BAROT
PRIMARY EXAMINER**